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10/724,138

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Jong-nam Park

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EXAMINER

HALEY, JOSEPH R

ART UNIT

PAPER NUMBER

2627

MAIL DATE

DELIVERY MODE

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PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

| | | | |
|------------------------------|--------------------------------------|---------------------------------------|--|
| Office Action Summary | Application No. 10/724,138 | Applicant(s) PARK, JONG-NAM | |
| | Examiner JOSEPH HALEY | Art Unit 2627 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 19 June 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,5-7 and 11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,5-7 and 11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1, 5-7, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over the applicant's admitted prior art in view of Tomita further considered with Takeda (US 6731573).

In regard to claim 1, the applicant's admitted prior art teaches a method of automatically pausing an optical pickup in a DVD-RAM disc drive (fig. 1), the method comprising: generating a jump signal in response to a state of the land/groove signal varying; and moving the optical pickup back by 1/2 of a track in response to the jump signal (see paragraph 8 lines 1-5) and recording data in only the land tracks or the groove tracks (see paragraph 6 of the applicant's admitted prior art) but does not teach determining whether a tracking error signal is generated during driving of a disc; wherein the land/groove signal is at a first state when the optical pickup is positioned over the land tracks, the land/groove signal is at a second state when the optical pickup is positioned over the groove tracks, the land/groove signal transits from the first state to the second state or from the second state to the first state, and the optical pickup is positioned over either the land tracks or the groove tracks depending on the

state of the land/groove signal; generating a land/groove signal to discern land tracks and groove tracks; determining from which track the tracking error signal has been generated using the generated land/groove signal in response to the determination that the tracking error signal has been generated and inspecting a quality of an RF of data recorded in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks

Tomita teaches determining whether a tracking error signal is generated (fig. 13B) wherein the land/groove signal is at a first state when the optical pickup is positioned over the land tracks, the land/groove signal is at a second state when the optical pickup is positioned over the groove tracks, the land/groove signal transits from the first state to the second state or from the second state to the first state, and the optical pickup is positioned over either the land tracks or the groove tracks depending on the state of the land/groove signal; generating a land/groove signal to discern land tracks and groove tracks; generating a land/groove signal to discern land tracks and groove tracks (figs. 13 and 14); and determining from which track the tracking error signal has been generated using the generated land/groove signal in response to the determination that the tracking error signal has been generated (see fig. 13C. See also fig. 14D and column 29 lines 38-45) but does not teach inspecting a quality of an RF of data recorded in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks.

The two are analogous art because they both deal with the same field of invention of switching from land to groove tracks.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art with the tracking and land/groove signals of Tomita because using the polarity of a tracking error signal will accurately tell if the laser is on a land or a groove.

Takeda teaches inspecting a quality of an RF of data recorded in the land tracks; and inspecting a quality of an RF of data recorded in the groove tracks (fig. 12 and column 8 lines 51-57 Takeda teaches storing FS values for land and groove tracks. These FS values come from the RF signal).

The three are analogous art because they all deal with the same field of invention of recording in optical media.

At the time of invention it would have been obvious to one of ordinary skill in the art to provide the method of the applicant's admitted prior art in view of Tomita with the separate phase corrections of Takeda. The rationale is as follows: At the time of invention it would have been obvious to provide the method of the applicant's admitted prior art in view of Tomita with the separate phase corrections of Takeda because it will be easy to determine the correct FS offset.

In regard to claim 5, Tomita teaches a microcomputer of the DVD-RAM disc drive receives the land/groove signal and determines from which track the tracking error signal has been generated (see fig. 13).

In regard to claims 6 and 7, Tomita teaches wherein the first state is a high level

and the second state is a low level and wherein the first state is a low level and the second state is a high level (see fig. 13C).

In regard to claims 11 and 12, see claim 1 rejection above.

In regard to the microcomputer of claim 12, see fig. 5 element 46.

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JOSEPH HALEY whose telephone number is (571)272-0574. The examiner can normally be reached on M-F 8:30am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Joseph H. Feild/
Supervisory Patent Examiner, Art
Unit 2627

/Joseph Haley/
Examiner, Art Unit 2627